

# Solid Waste Facility Permit

Central Disposal Site

1. Local Facility No: 0059

SWIS No. 49-AA-0001

1. Name and Street Address of Facility:

Central Disposal Site  
500 Meacham Road  
Petaluma, CA 94952

2. Name and Mailing Address of Operator:

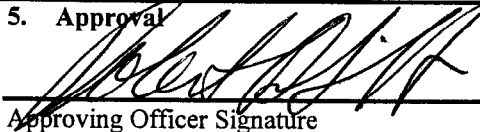
County of Sonoma Department of  
Transportation and Public Works  
575 Administration Dr., Room 117A  
Santa Rosa, CA 95403

3. Name and Mailing Address of Owner: Same as operator

4. Permitted Operations: The following operations, as defined by the California Code of Regulations Title 27, are authorized by this permit:

- ☒ Solid Waste Disposal Site
- ☐ Transfer Station (Large Volume / Limited Volume / Sealed Container/ Contaminated Soil)
- ☐ Composting (Mixed Waste / Sludge / Green Material)
- ☐ Contaminated Soil Monofill
- ☐ Other \_\_\_\_\_

5. Approval



Approving Officer Signature

Robert A. Swift

Name/Title

Senior Environmental Health Specialist

6. Approval dates:

Date received by CIWMB: MAY 12 2000

CIWMB Concurrence Date: JUN 20 2000

LEA Permit Issuance Date: June 27, 2000

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CC

7. Local Enforcement Agency Name and Address:

County of Sonoma Department of Health  
Services Environmental Health Division  
1030 Center Drive, Suite A  
Santa Rosa, CA 95403

8. Operator/Owner Transfer Date:

9. Site Boundary and Disposal Area Description: (reference to attachment)

Refer to JTD Appendix A-1 for legal description.

Refer to JTD Appendix A-2 for site boundary and disposal area maps.

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## 10. LEA Findings

- a. The permit is consistent with the April, 1996 County of Sonoma County Integrated Waste Management Plan, PRC, Section 50001, approved July 30, 1996.
- b. This permit is consistent with the standards adopted by the CIWMB. (PRC 44010)
- c. Based on a review of the October 22, 1999 JTD, revised January, 2000 and monthly inspections of the facility, the design and operation of the facility is consistent with State Minimum Standards for Solid Waste Handling and Disposal.
- d. The LEA finds the following CEQA documents, prepared by the County of Sonoma Department of Transportation and Public Works describe and support the design and operation which will be authorized by the issuance of this permit:

<u>Type of Document</u>	<u>No. of Document</u>	<u>Date filed w/SCH</u>	<u>Notice of Determination</u>
EIR	SCH # 97022022	Nov.14, 1997	Aug.19, 1998
EIR	SCH # 95073068	Oct. 3, 1997	
Revision to the Draft EIR	"	July 31, 1998	Dec.15, 1998

## 11. Facility Limitations: The operator shall not exceed the following limitations:

- a. Permitted Maximum Tonnage: 2500 tons per day per day
- b. Permitted Hours of Operation : Seven days a week, except for the holidays of New Year's Day, Easter, Fourth of July, Labor Day, Thanksgiving, and Christmas  
6:00 a.m. to 5:00 p.m. (operating hours)  
7:00 a.m. to 4:00 p.m. (public hours)  
4:30 p.m. to 5:30 p.m. Monday through Friday, excluding holidays (blasting operations)
- c. Permitted Maximum Elevation (MSL): 565 feet above mean sea level
- d. Permitted Minimum Excavation (MSL): 212 feet above mean sea level
- e. Maximum Permitted Traffic: 364 vehicles going in and coming out of the site during the morning peak hour (7:30 to 8:30 a.m.)

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- f. Maximum Permitted Acreage: 398.5
- g. Maximum Permitted Disposal Area: 172 acres
- h. Maximum Permitted Design Capacity: 32,650,000 cubic yards waste and cover

## 12. Design Information:

At the time the permit was prepared, the following basic design information was reviewed and was fundamental in setting the conditions in this permit, as were the details of the design information provided in the JTD. The operator shall keep all information updated pursuant to Title 27, Sec. 21600. Such amendments or lack thereof may become the basis for changes in the permit. The information listed below is in no way meant to set limits on the facility. However, the LEA may determine that if the following design significantly changes, the operator will be required to revise the permit to include additional or different conditions or limitations.

- a. Total Airspace Design Capacity: 32,650,000 cubic yards of waste and cover
- b. Total Airspace Remaining Capacity: 14,446,000 cubic yards of waste and cover
- c. Estimated Closure Year (landfill): 2014

13. The following is a list of some of the other permits and other necessary documents for the facility, which the LEA has reviewed and considered prior to writing the permit. These documents in no way condition the facility under this Solid Waste Facility Permit, unless otherwise stated in the LEA Condition portion of this permit.

<u>Documents</u>	<u>Date</u>
Preliminary Closure/Post Closure	JTD Vol. I, Sections 10 and 11
Closure Financial Responsibility Document	JTD Vol. III, Appendix D-7 (3/10/99)
Operating Liability	JTD Vol. III, Appendix D-7 (7/9/92)
Waste Discharge Requirements	Order No. 93-83 adopted 9/22/93
Air Pollution Control District Permit to Operate	Plant # 2254 expires June 1, 2000 (renewed annually)

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## 14. LEA Monitoring Requirements:

Program	Reporting Frequency	Agency Reported To
Daily Tonnage Reports and Records:	Monthly	LEA
Cell Sequencing Plan	Quarterly	LEA
Household Hazardous Waste Program Summary Report	Quarterly	LEA
Remaining Capacity:	Yearly	LEA

## 15. LEA Conditions

- a. The 1999 JTD and subsequent approved JTD Amendments shall reflect the current operation at this facility. The operator must file amendments to the JTD prior to making changes in the design and operation from those outlined in the JTD. Such JTD Amendments or lack thereof may become the basis for changes in the permit or for revocation of the permit.
- b. Prior to rock excavation and construction of the landfill liner and leachate collection and removal system (LCRS), a Spill Prevention Plan will be prepared. The plan will identify procedures for refueling equipment, performing equipment maintenance and repair, and storing construction materials that will minimize the potential for spills. The plan will require that any explosives spilled during the loading of the blasting holes be cleaned up prior to detonating the explosives. Equipment refueling areas will be designated and restricted to locations where spills could be contained. The plan will include contingency measures to be used to contain and clean up spills and procedures for disposal of used or spilled materials. The LEA is responsible for the review and approval of this updated plan.
- c. Blasting shall be limited to the hours of 4:30 p.m. to 5:30 p.m., Monday through Friday, excluding holidays, when the public is not present. A safety setback perimeter, consistent with OSHA and MSHA requirements, shall be established around the blast site with cones. Prior to a blast, all access points to the blasting site shall be blocked by signs and sentries to assure a safe clear zone around the blast. The following warning systems, procedures and protection devices shall be established prior to blasting:
  1. A system of audible signals to warn of impending blast.
  2. Signboards and flags indicating areas where blasting operations are occurring, these signs shall be clearly visible and legible from all parts of access to the area. The signs shall clearly describe the audible signal system for warning of impending blasts. Blast area signs shall clearly indicate the length and nature of audible blast warning and all clear signals. All warning systems shall comply with the most stringent

requirements of regulating local, state and federal agencies.

3. Only the blaster-in charge will give the signal that it is safe to blast after ensuring that all people, animals and equipment are in safe locations.
  4. Explosives must be directly supervised by a licensed blaster at all times that they are on the Central Disposal Site. This requirement applies to all explosives that are already loaded in the ground and to explosives that are yet unloaded or left over after a blast is loaded. Any explosives spilled during the loading of the blasting holes shall be cleaned up prior to detonating the explosives. No explosives will be stored at the Central Disposal Site.
- d. The bore holes for blasting shall be limited to a maximum diameter of 4 inches and a depth which assures that a maximum bench height of 30 feet is not exceeded. All blasts will be designed so that the maximum weight of explosives per delay will not exceed 200 pounds.
- Prior to placing explosives in the blast holes, methane detecting equipment will be used to determine whether methane gas is present at the collars of at least 15 blast holes that are nearest the areas of the landfill that contain buried refuse. If the monitors detect methane in concentrations exceeding 1.0%, the blasting contractor shall use only explosives especially formulated for safe use in gassy environments. All explosive charges shall be stemmed with at least 8 feet of clean crushed stone with a maximum dimension of 3/8 to 1/2 inches.
- e. Contractors working on the Central Disposal Site will be prohibited from blasting simultaneously at two or more locations. Blasting at more than one location may occur on the same day, but blasting will be coordinated so that blasts do not occur within 10 minutes of each other.
  - f. Blasting will not be allowed closer than 25 feet from the nearest part of the existing Central Disposal Site landfill that contains buried refuse, any monitoring well, landfill gas or leachate collection pipes, East Canyon landfill liner, or leachate storage pond. The maximum charge weight per delay shall meet a minimum scale distance of 10 at the nearest part of the existing landfill that contains buried refuse, any monitoring well, landfill gas or leachate collection pipe, landfill liner, or leachate storage pond and a minimum scale distance of 60 based on the distance to the nearest privately owned building. The calculation producing the lowest charge weight shall be used in all cases.
  - g. In no case shall blasting noise (air blast), measured near residential buildings, exceed 130 dBL. Peak particle velocity of blast induced ground motion shall not exceed 0.5 inches per second near any private off-site structures. Ground motion at the nearest part of the existing landfill containing buried refuse, any monitoring well, landfill gas or leachate collection pipe, liner, or leachate storage pond shall not exceed 7.5 inches per second.
  - h. Blast reports shall be submitted to the County of Sonoma Department of Transportation and Public Works, Integrated Waste Division, within 24 hours after the time of blasting. Reports shall be kept on file and available for LEA review and shall include details about hole loads, maximum charge weight per delay, delay timing, blast time, weather conditions, explosive

product names and quantities, and other pertinent information. A copy of the drill log will also be attached to the blast report.

- i. The Integrated Waste Division shall extend the program of measures to control scavenging birds to the East Canyon expansion area. Measures shall include using wires or exclusion structures over leachate ponds, using chemical repellants around areas of standing water, using noise-makers or other devices to frighten birds from the landfill, or other measures recommended by the Local Enforcement Agency.
- j. The Central Disposal Site Operations Manager will monitor areas containing landscaping or standing water and take such actions as necessary to ensure that they do not become a breeding area for rodents or mosquitoes. Such actions may include grading areas to drain, using biological controls, or applying insecticides and rodent traps in accordance with applicable regulations.
- k. The Integrated Waste Division will maintain stockpiles of cover soil and other cover materials to ensure that there will be an adequate supply of materials to cover refuse every day, even during extended periods of rain.
- l. The Integrated Waste Division will conduct monthly inspections of the landfill cover to detect surface cracks. Should cracks (potential odor sources) be detected, they will be repaired immediately.
- m. The Integrated Waste Division will prepare and implement a plan to reduce dust emissions from construction and operation of the facilities at the Central Disposal Site. The plan will be in place prior to beginning construction of any of the facilities. At a minimum, the plan will contain the following features:
  - 1. Construction areas will be watered as needed to control dust.
  - 2. Water or other dust suppressants will be used on unpaved haul roads.
  - 3. Watering will be done more frequently when wind speeds exceed 15 mph.
  - 4. Dirt stockpiles will be watered or otherwise protected with a dust suppressant.
  - 5. Vehicle speeds will be limited to 15 mph on unpaved haul roads.
  - 6. Integrated Waste staff will monitor the condition of the main access road to the site, including its intersection with Mechem Road. The pavement will be cleaned by washing or sweeping whenever it is apparent that sufficient soil has been tracked or spilled on the pavement to cause substantial dust.
  - 7. To the extent possible, the contractor shall be required to remove all loose dirt and loose overburden material from the blasting area prior to drilling the blast holes.
  - 8. As directed by the County engineer, the contractor shall spray water over blast areas prior to blasting.
  - 9. The contractor shall be prohibited from loading explosives in blast holes and conducting a blast when the wind speed on the site exceeds 20 mph.
  - 10. The rock crusher shall be equipped with a spray mister, or incorporate some other equally effective measure to control dust.

- n. Construction equipment or materials storage areas shall be located as far away as practicable from residences.
- o. The Integrated Waste Division will continue the existing litter control program, and expand it to include landfill operations in the East Canyon. Litter fences will be constructed at the periphery of the landfill areas as needed to catch litter blowing from the landfill. The existing litter clean-up program will be continued while the landfill is in operation.

The Integrated Waste Division will increase the frequency of litter pick up along Mecham Road and Stony Point Road from West Railroad Avenue to Highway 116 so that these roadsides will be cleaned each day that the landfill is open. The Division will also post signs on Mecham Road that will give a phone number at the Central Disposal Site that people may call to report vehicles that are seen littering on the way to or from the Central Disposal Site. At least one sign for the northbound direction near Pepper Road and one for the southbound direction near Stony Point Road will be posted.

- p. To ensure that the landfill gas monitoring system is adequate to detect gas migration from the East Canyon expansion area before it can travel off-site, the gas monitoring system for the site will be expanded by adding gas monitoring stations around the perimeter of the expansion area. The final selection of monitoring stations will be developed in consultation with the Local Enforcement Agency, California Integrated Waste Management Board and the Bay Area Air Quality Management District. The gas monitoring stations for the east canyon expansion area will be in place before refuse is placed in that area.
- q. The public tipping facility will be cleaned each operating day of all loose materials and litter. All solid waste accepted at the public tipping facility will be removed at the end of each operating day to the active face and covered with daily cover.
- r. The Integrated Waste Division will consult with the Sonoma County Department of Emergency Services and will revise the existing emergency response and evacuation plan to include responses to potential emergencies involving the household hazardous waste collection facility. This plan must be approved by the Department of Emergency Services prior to use of the new facility. Upon approval of the plan, it will be incorporated into the Joint Technical Document for the Central Disposal Site. In accordance with State and Federal laws, the Integrated Waste Division will develop an operation plan, worker health and safety plan, and an emergency response plan. The operation plan will detail handling procedures for hazardous wastes, procedures for handling sensitive materials such as explosives, preventative and safety measures, daily and periodic safety inspections for safety equipment, reporting and tracking methods, and personnel training requirements. The worker health and safety plan will also encompass training requirements, safety equipment and inspection, signs and warning systems. The emergency response plan will detail responses to potential spills, releases, receipt of sensitive materials, fires, and explosions. This will include the appropriate agencies to notify, procedures for emergency isolation and management of the site, identification of the waste involved, notification of the surrounding community (if needed), evacuation of the site (and surrounding community, if needed), and the appropriate hazardous materials clean-up activity.

- s. When operations are conducted during hours of darkness, the site and/or equipment shall be equipped with adequate lighting to ensure safety and to monitor the effectiveness of operations.
- t. Two site attendants shall be present at the tipping apron during peak operating hours. At a minimum, one site attendant is required during off peak hours (e.g. weekends), provided the unloading area is confined to as small an area as possible to accommodate the number of vehicles using the area without resulting in traffic personnel, or public safety hazards. At the time that the public tipping facility is operational, at a minimum one site attendant shall be present at the public tipping facility and one site attendant shall be present at the commercial tipping apron.
- u. Types of wastes received at this facility include all non-hazardous solid wastes which consists of:
  - 1. construction/demolition
  - 2. dead animals
  - 3. industrial
  - 4. mixed municipal
  - 5. sludge [per 27 CCR 20220(c)]
- v. Compliance with 27 CCR Chapter 3, Subchapter 4 Criteria for Landfills and Disposal Sites (State Minimum Standards) is required.
- w. Compliance with 27 CCR 21600 standards, Report of Disposal Site Information as described in the JTD, is required. In order to maintain the permit, the operator must file amendments to the JTD as required in 27 CCR 21665. Such amendments or lack thereof may become the basis for changes in the permit or for revocation of the permit.